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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,102	10/05/2007	Tae-Yoon Kim	BARUN-13046	5838
72960	7590	02/18/2009	EXAMINER	
Casimir Jones, S.C.			NOBLE, MARCIA STEPHENS	
440 Science Drive			ART UNIT	PAPER NUMBER
Suite 203				1632
Madison, WI 53711				
		MAIL DATE	DELIVERY MODE	
		02/18/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/589,102	Applicant(s) KIM ET AL.
	Examiner MARCIA S. NOBLE	Art Unit 1632

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 10 August 2006 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application Paper No(s)/Mail Date _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claims 1-19 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 16 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Cao et al (US2003/0233675 pub date 12/18/2003; filing date 2/20/2003 now Patent Number 7,314,974).

Cao et al discloses SEQ ID NO:24511 (see claim 1 of Pregnant Pub). Nucleic acids 208-189 are identical to SEQ ID NO:8. The claimed composition does not specify that the composition can only comprise the 20 nucleic acid of the formula, nor does it specify that the sequence is isolated. The intended use of the composition isn't given patentable weight as there is no indication the use alters the structure of the CpG oligodeoxynucleotide. Therefore, the sequence disclosed by Cao et al encompasses the limitations of the claims.

Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Rosen et al (US2007/015271 filing date 4/2/2003).

Rosen et al discloses administering a nucleic acid encoded by SEQ ID NO:976 to a patient for the treatment or prevention of a disease (p. 4, [0026], line 1 to [0029], line 8). Nucleic acids 86-105 of SE ID NOL976 disclosed by Rosen et al are identical to the nucleic acid sequence of SEQ ID NO:2. The claims do not require that the nucleic acid of the formula be isolated or only comprise the 20 nucleic acid sequence. Therefore, the disclosure by Rosen et al encompass the limitations of the nucleic acid of the claimed sequence. Further, the only active method step of the claim are administering the claimed nucleic acid to a subject and Rosen et al discloses this active method step. The claims do recite intended use or a desire result of the method in the preamble of the claims. However, because these limitations are not active method steps in the claimed method, these intended uses and results do not have patentable weight. Therefore, clearly Rosen et al teaches all of the required limitations of the claims.

Claim Rejections - 35 USC § 101

This 101 also has an accompanying 112, 2nd rejection.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 18 and 19 provides for the use of a CpG oligodeoxynucleotide, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it

merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 18 and 19 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Objections

Claims 18 and 19 are objected to under 37 CFR 1.75 as being duplicates each other. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 11-15 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method of treating a skin disease comprising

Art Unit: 1632

administering to a subject in need thereof an effective amount of a CpG oligodeoxynucleotide (ODN) comprising the formula SYYSSAGGTTSNYRAWYTC (SEE ID NO:1), wherein S is G or C; Y is C or T; N is any one selected from the group consisting of A, G, T, and C; R is G or A, W is A or T, and M is A or C, and wherein the CpG ODN comprises at least two unmethylated CpG motifs, does not reasonably provide enablement for a method of treating or preventing any skin disease. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The claims recite a method of treating or preventing a skin disease. The breadth of this recitation encompasses the treatment of any skin disease. The specification teaches a method of topically administering CpG ODN to the skin of NC/Nga mice comprising atopical dermatitis (p. 33, line 20 to p. 34, line 2). The specification teaches that such CpG administration resulted in disappearance of the atopic dermatitis lesions whereas control treatment did not (p. 34, lines 5-16). Therefore, the specification provides specific guidance to teach treatment of inflammatory skin disease or skin disease associated with Th2 immune response. The specification contemplates prevention of a skin disease. However, the specification fails to provide specific guidance to teach methods of preventing a skin disease.

Najar and Dutz (J Invest Derm 128:2204-2210, 2008) teach a method of coadministering CpG to skin tumor bearing mice with or without chemotherapy. While CpG alone or in combination with chemotherapy were capable retarding the growth of

tumors, treatment was not able to prevent skin cancer or mortality associated with skin cancer (p. 2205, col 2, Figure 1a and b). Therefore, the art teaches that treatment with CpG is not capable of prevent such skin diseases as skin cancer, as is encompassed by the claims.

Therefore the instant claim are not enabled for their full breadth because the specification fails to teach a method of preventing a skin disease using CpG treatment and the art suggests that CpG will not prevent skin disease, such as skin cancer.

Therefore at the time of filing the skilled artisan would need to perform an undue amount of experimentation without a predictable degree of success to implement the invention as claimed.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCIA S. NOBLE whose telephone number is (571)272-5545. The examiner can normally be reached on M-F 9 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Crouch/
Primary Examiner, Art Unit 1632

Marcia S. Noble
AU 1632